EXHIBIT A

Docket No.: PF-0619 USN USSN: 09/807.452



BLAST2 Search Results

Sequences	Hel p					
Retrieval	BLAST2	FASTA	ClustalW	GCG Assembly	Phrap	Translation
BLAST 2 Manual						

Confidential -- Property of Incyte Corporation SegServer Version 4.6 Jan 2002

Program: blastp Sequence ID(s):

4325626CD1 vs. genpept136

NCBI-BLASTP 2.0.10 [Aug-26-1999]

1

Reference: Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schaffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

Query= 4325626CD1 (549 letters)

Database: genpept136

1,453,555 sequences; 449,659,834 total letters

Searching......done

Seq	uences producing significant alignments:	Score (bits)	E Value
V	g23452665 Rab GTPase-activating protein PRC17 [Homo sapiens]	1164	0.0
V	g12053225 hypothetical protein [Homo sapiens]	1160	0.0
V	g37330 oncogene [Homo sapiens]	855	0.0
V	g24474450 ubiquitin-specific protease USP6 [Homo sapiens]	854	0.0
V	g37333 oncogene [Homo sapiens]	602	e-171
V	g37334 oncogene [Homo sapiens]	257	4e-67
V	g29881565 Expressed sequence AI316785 [Mus musculus]	250	9e-65
V	g27695568 related to the N terminus of tre [Homo sapiens]	245	2e-63
V	g2104571 KIAA0019 protein [Homo sapiens]	245	2e-63
V	g28703740 Hypothetical protein MGC51025 [Homo sapiens]	235	2e-60

>g23452665 Rab GTPase-activating protein PRC17 [Homo sapiens] Length = 549

Score = 1164 bits (2978), Expect = 0.0Identities = 548/549 (99%), Positives = 548/549 (99%)

Query: 1 MDVVEVAGSWWAQEREDIIMKYEKGHRAGLPEDKGPKPFRSYNNNVDHLGIVHETELPPL 60

```
MDVVEVAGSWWAOEREDIIMKYEKGHRAGLPEDKGPKPFRSYNNNVDHLGIVHETELPPL
Sbjct: 1
           MDVVEVAGSWWAQEREDIIMKYEKGHRAGLPEDKGPKPFRSYNNNVDHLGIVHETELPPL 60
Query: 61
           TAREAKOIRREISRKSKWVDMLGDWEKYKSSRKLIDRAYKGMPMNIRGPMWSVLLNTEEM 120
           TAREAKOIRREISRKSKWVDMLGDWEKYKSSRKLIDRAYKGMPMNIRGPMWSVLLN EEM
           TAREAKOIRREISRKSKWVDMLGDWEKYKSSRKLIDRAYKGMPMNIRGPMWSVLLNIEEM 120
Sbjct: 61
Query: 121 KLKNPGRYQIMKEKGKRSSEHIQRIDRDVSGTLRKHIFFRDRYGTKQRELLHILLAYEEY 180
           KLKNPGRYOIMKEKGKRSSEHIORIDRDVSGTLRKHIFFRDRYGTKORELLHILLAYEEY
Sbjct: 121 KLKNPGRYOIMKEKGKRSSEHIORIDRDVSGTLRKHIFFRDRYGTKQRELLHILLAYEEY 180
Query: 181 NPEVGYCRDLSHIAALFLLYLPEEDAFWALVOLLASERHSLOGFHSPNGGTVOGLODOOE 240
           NPEVGYCRDLSHIAALFLLYLPEEDAFWALVOLLASERHSLOGFHSPNGGTVOGLODOOE
Sbjct: 181 NPEVGYCRDLSHIAALFLLYLPEEDAFWALVQLLASERHSLQGFHSPNGGTVQGLQDQQE 240
Query: 241 HVVATSQPKTMGHQDKKDLCGQCSPLGCLIRILIDGISLGLTLRLWDVYLVEGEQALMPI 300
           HVVATSQPKTMGHQDKKDLCGQCSPLGCLIRILIDGISLGLTLRLWDVYLVEGEQALMPI
Sbjct: 241 HVVATSQPKTMGHQDKKDLCGQCSPLGCLIRILIDGISLGLTLRLWDVYLVEGEQALMPI 300
Query: 301 TRIAFKVQQKRLTKTSRCGPWARFCNRFVDTWARDEDTVLKHLRASMKKLTRKQGDLPPP 360
           TRIAFKVOOKRLTKTSRCGPWARFCNRFVDTWARDEDTVLKHLRASMKKLTRKOGDLPPP
Sbjct: 301 TRIAFKVQQKRLTKTSRCGPWARFCNRFVDTWARDEDTVLKHLRASMKKLTRKQGDLPPP 360
Query: 361 AKPEQGSSASRPVPASRGGKTLCKGDRQAPPGPPARFPRPIWSASPPRAPRSSTPCPGGA 420
           AKPEQGSSASRPVPASRGGKTLCKGDRQAPPGPPARFPRPIWSASPPRAPRSSTPCPGGA
Sbjct: 361 AKPEQGSSASRPVPASRGGKTLCKGDRQAPPGPPARFPRPIWSASPPRAPRSSTPCPGGA 420
Query: 421 VREDTYPVGTQGVPSPALAQGGPQGSWRFLQWNSMPRLPTDLDVEGPWFRHYDFRQSCWV 480
           VREDTYPVGTQGVPSPALAQGGPQGSWRFLQWNSMPRLPTDLDVEGPWFRHYDFRQSCWV
Sbjct: 421 VREDTYPVGTOGVPSPALAQGGPQGSWRFLQWNSMPRLPTDLDVEGPWFRHYDFRQSCWV 480
Ouery: 481 RAISOEDOLAPCWOAEHPAERVRSAFAAPSTDSDOGTPFRARDEQPCAPTSGPCLCGLHL 540
           RAISOEDOLAPCWOAEHPAERVRSAFAAPSTDSDOGTPFRARDEOPCAPTSGPCLCGLHL
Sbjct: 481 RAISOEDOLAPCWOAEHPAERVRSAFAAPSTDSDOGTPFRARDEOPCAPTSGPCLCGLHL 540
Ouery: 541 ESSOFPPGF 549
           ESSQFPPGF
Sbjct: 541 ESSQFPPGF 549
>g12053225 hypothetical protein [Homo sapiens]
           Length = 549
 Score = 1160 \text{ bits } (2969), \text{ Expect = } 0.0
 Identities = 546/549 (99%), Positives = 548/549 (99%)
           MDVVEVAGSWWAQEREDIIMKYEKGHRAGLPEDKGPKPFRSYNNNVDHLGIVHETELPPL 60
Query: 1
           MDVVEVAGSWWAQEREDIIMKYEKGHRAGLPEDKGPKPFRSYNNNVDHLGIVHETELPPL
Sbjct: 1
           MDVVEVAGSWWAQEREDIIMKYEKGHRAGLPEDKGPKPFRSYNNNVDHLGIVHETELPPL 60
Query: 61
           TAREAKQIRREISRKSKWVDMLGDWEKYKSSRKLIDRAYKGMPMNIRGPMWSVLLNTEEM 120
           TAREAKQIRREISRKSKWVDMLGDWEKYKSSRKLIDRAYKGMPMNIRGPMWSVLLNTEEM
Sbjct: 61
           TAREAKQIRREISRKSKWVDMLGDWEKYKSSRKLIDRAYKGMPMNIRGPMWSVLLNTEEM 120
Query: 121 KLKNPGRYQIMKEKGKRSSEHIQRIDRDVSGTLRKHIFFRDRYGTKQRELLHILLAYEEY 180
           KLKNPGRYQIMKEKGK+SSEHIQRIDRDVSGTLRKHIFFRDRYGTKQRELLHILLAYEEY
Sbjct: 121 KLKNPGRYQIMKEKGKKSSEHIQRIDRDVSGTLRKHIFFRDRYGTKQRELLHILLAYEEY 180
Query: 181 NPEVGYCRDLSHIAALFLLYLPEEDAFWALVQLLASERHSLQGFHSPNGGTVQGLQDQQE 240
           NPEVGYCRDLSHIAALFLLYLPEEDAFWALVQLLASERHSLQGFHSPNGGTVQGLQDQQE
Sbjct: 181 NPEVGYCRDLSHIAALFLLYLPEEDAFWALVQLLASERHSLQGFHSPNGGTVQGLQDQQE 240
Query: 241 HVVATSQPKTMGHQDKKDLCGQCSPLGCLIRILIDGISLGLTLRLWDVYLVEGEQALMPI 300
           HVVATSQPKTMGHQDKKDLCGQCSPLGCLIRILIDGISLGLTLRLWDVYLVEGEQALMPI
Sbjct: 241 HVVATSQPKTMGHQDKKDLCGQCSPLGCLIRILIDGISLGLTLRLWDVYLVEGEQALMPI 300
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Query: 301 TRIAFKVQQKRLTKTSRCGPWARFCNRFVDTWARDEDTVLKHLRASMKKLTRKQGDLPPP 360
           TRIAFKVOOKRL/TKTSRCGPWARFCNRFVDTWARDEDTVLKHLRASMKKLTRK+GDLPPP
Sbjct: 301 TRIAFKVOOKRLTKTSRCGPWARFCNRFVDTWARDEDTVLKHLRASMKKLTRKKGDLPPP 360
Query: 361 AKPEQGSSASRPVPASRGGKTLCKGDRQAPPGPPARFPRPIWSASPPRAPRSSTPCPGGA 420
           AKPEOGSSASRPVPASRGGKTLCKGDROAPPGPPARFPRPIWSASPPRAPRSSTPCPGGA
Sbjct: 361 AKPEQGSSASRPVPASRGGKTLCKGDRQAPPGPPARFPRPIWSASPPRAPRSSTPCPGGA 420
Ouery: 421 VREDTYPVGTOGVPSPALAOGGPOGSWRFLOWNSMPRLPTDLDVEGPWFRHYDFROSCWV 480
           VREDTYPVGTOGVPSPALAOGGPOGSWRFLOWNSMPRLPTDLDVEGPWFRHYDFROSCWV
Sbjct: 421 VREDTYPVGTOGVPSPALAOGGPOGSWRFLOWNSMPRLPTDLDVEGPWFRHYDFROSCWV 480
Query: 481 RAISQEDQLAPCWQAEHPAERVRSAFAAPSTDSDQGTPFRARDEQPCAPTSGPCLCGLHL 540
           RAISQEDQLAPCWQAEHPAERVRSAFAAPSTDSDQGTPFRARDEQ CAPTSGPCLCGLHL
Sbjct: 481 RAISQEDQLAPCWQAEHPAERVRSAFAAPSTDSDQGTPFRARDEQQCAPTSGPCLCGLHL 540
Query: 541 ESSQFPPGF 549
           ESSQFPPGF
Sbjct: 541 ESSQFPPGF 549
>q37330 oncogene [Homo sapiens]
           Length = 786
 Score = 855 bits (2185), Expect = 0.0
 Identities = 407/500 (81%), Positives = 440/500 (87%), Gaps = 1/500 (0%)
Query: 1
          MDVVEVAGSWWAOEREDIIMKYEKGHRAGLPEDKGPKPFRSYNNNVDHLGIVHETELPPL 60
           MD+VE A S AOER+DI+MKY+KGHRAGLPEDKGP+P
                                                     N+++D GI+HETELPP+
Sbjct: 1
           MDMVENADSLQAQERKDILMKYDKGHRAGLPEDKGPEPV-GINSSIDRFGILHETELPPV 59
          TAREAKOIRREISRKSKWVDMLGDWEKYKSSRKLIDRAYKGMPMNIRGPMWSVLLNTEEM 120
Query: 61
           TAREAK+IRRE++R SKW++MLG+WE YK S KLIDR YKG+PMNIRGP+WSVLLN +E+
Sbict: 60
          TAREAKKIRREMTRTSKWMEMLGEWETYKHSSKLIDRVYKGIPMNIRGPVWSVLLNIQEI 119
Ouery: 121 KLKNPGRYOIMKEKGKRSSEHIORIDRDVSGTLRKHIFFRDRYGTKQRELLHILLAYEEY 180
           KLKNPGRYOIMKE+GKRSSEHI ID DV TLR H+FFRDRYG KOREL +ILLAY EY
Sbjct: 120 KLKNPGRYQIMKERGKRSSEHIHHIDLDVRTTLRNHVFFRDRYGAKQRELFYILLAYSEY 179
Ouery: 181 NPEVGYCRDLSHIAALFLLYLPEEDAFWALVOLLASERHSLOGFHSPNGGTVOGLODOOE 240
           NPEVGYCRDLSHI ALFLLYLPEEDAFWALVOLLASERHSL GFHSPNGGTVOGLODOOE
Sbjct: 180 NPEVGYCRDLSHITALFLLYLPEEDAFWALVOLLASERHSLPGFHSPNGGTVQGLQDQQE 239
Query: 241 HVVATSOPKTMGHODKKDLCGOCSPLGCLIRILIDGISLGLTLRLWDVYLVEGEQALMPI 300
           HVV SQPKTM HQDK+ LCGQC+ LGCL+R LIDGISLGLTLRLWDVYLVEGEQ LMPI
Sbjct: 240 HVVPKSQPKTMWHQDKEGLCGOCASLGCLLRNLIDGISLGLTLRLWDVYLVEGEQVLMPI 299
Query: 301 TRIAFKVQQKRLTKTSRCGPWARFCNRFVDTWARDEDTVLKHLRASMKKLTRKQGDLPPP 360
           T IA KVQQKRL KTSRCG WAR N+F DTWA ++DTVLKHLRAS KKLTRKQGDLPPP
Sbjct: 300 TSIALKVQQKRLMKTSRCGLWARLRNQFFDTWAMNDDTVLKHLRASTKKLTRKQGDLPPP 359
Query: 361 AKPEQGSSASRPVPASRGGKTLCKGDRQAPPGPPARFPRPIWSASPPRAPRSSTPCPGGA 420
           AK EQGS A RPVPASRGGKTLCKG RQAPPGPPA+F RPI SASPP A R STPCPGGA
Sbjct: 360 AKREQGSLAPRPVPASRGGKTLCKGYRQAPPGPPAQFQRPICSASPPWASRFSTPCPGGA 419
Query: 421 VREDTYPVGTQGVPSPALAQGGPQGSWRFLQWNSMPRLPTDLDVEGPWFRHYDFRQSCWV 480
           VREDTYPVGTQGVPS ALAQGGPQGSWRFL+W SMPRLPTDLD+ GPWF HYDF +SCWV
Sbjct: 420 VREDTYPVGTQGVPSLALAQGGPQGSWRFLEWKSMPRLPTDLDIGGPWFPHYDFERSCWV 479
Ouery: 481 RAISOEDOLAPCWQAEHPAE 500
           RAISQEDQLA CWQAEH E
Sbjct: 480 RAISQEDQLATCWQAEHCGE 499
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>g24474450 ubiquitin-specific protease USP6 [Homo sapiens]
           Length = 1406
 Score = 854 bits (2182), Expect = 0.0
 Identities = 407/500 (81%), Positives = 439/500 (87%), Gaps = 1/500 (0%)
Query: 1
          MDVVEVAGSWWAOEREDIIMKYEKGHRAGLPEDKGPKPFRSYNNNVDHLGIVHETELPPL 60
           MD+VE A S AQER+DI+MKY+KGHRAGLPEDKGP+P
                                                     N+++D GI+HETELPP+
           MDMVENADSLQAQERKDILMKYDKGHRAGLPEDKGPEPV-GINSSIDRFGILHETELPPV 59
Sbjct: 1
          TAREAKOIRREISRKSKWVDMLGDWEKYKSSRKLIDRAYKGMPMNIRGPMWSVLLNTEEM 120
Query: 61
           TAREAK+IRRE++R SKW++MLG+WE YK S KLIDR YKG+PMNIRGP+WSVLLN +E+
           TAREAKKIRREMTRTSKWMEMLGEWETYKHSSKLIDRVYKGIPMNIRGPVWSVLLNIQEI 119
Sbjct: 60
Query: 121 KLKNPGRYQIMKEKGKRSSEHIQRIDRDVSGTLRKHIFFRDRYGTKQRELLHILLAYEEY 180
           KLKNPGRYQIMKE+GKRSSEHI ID DV TLR H+FFRDRYG KQREL +ILLAY EY
Sbjct: 120 KLKNPGRYQIMKERGKRSSEHIHHIDLDVRTTLRNHVFFRDRYGAKQRELFYILLAYSEY 179
Query: 181 NPEVGYCRDLSHIAALFLLYLPEEDAFWALVQLLASERHSLQGFHSPNGGTVOGLODOOE 240
           NPEVGYCRDLSHI ALFLLYLPEEDAFWALVQLLASERHSL GFHSPNGGTVQGLQDQQE
Sbjct: 180 NPEVGYCRDLSHITALFLLYLPEEDAFWALVQLLASERHSLPGFHSPNGGTVQGLQDQQE 239
Query: 241 HVVATSQPKTMGHQDKKDLCGQCSPLGCLIRILIDGISLGLTLRLWDVYLVEGEOALMPI 300
           HVV SQPKTM HQDK+ LCGQC+ LGCL+R LIDGISLGLTLRLWDVYLVEGEQ LMPI
Sbjct: 240 HVVPKSQPKTMWHQDKEGLCGQCASLGCLLRNLIDGISLGLTLRLWDVYLVEGEQVLMPI 299
Query: 301 TRIAFKVQQKRLTKTSRCGPWARFCNRFVDTWARDEDTVLKHLRASMKKLTRKQGDLPPP 360
           T IA KVOOKRL KTSRCG WAR N+F DTWA ++DTVLKHLRAS KKLTRKOGDLPPP
Sbjct: 300 TSIALKVOOKRLMKTSRCGLWARLRNOFFDTWAMNDDTVLKHLRASTKKLTRKOGDLPPP 359
Query: 361 AKPEQGSSASRPVPASRGGKTLCKGDRQAPPGPPARFPRPIWSASPPRAPRSSTPCPGGA 420
           AK EOGS A RPVPASRGGKTLCKG ROAPPGPPA+F RPI SASPP A R STPCPGGA
Sbjct: 360 AKREQGSLAPRPVPASRGGKTLCKGYRQAPPGPPAQFQRPICSASPPWASRFSTPCPGGA 419
Ouery: 421 VREDTYPVGTOGVPSPALAOGGPOGSWRFLOWNSMPRLPTDLDVEGPWFRHYDFROSCWV 480
           VREDTYPVGTOGVPS ALAOGGPOGSWRFL+W SMPRLPTDLD+ GPWF HYDF
Sbjct: 420 VREDTYPVGTQGVPSLALAQGGPQGSWRFLEWKSMPRLPTDLDIGGPWFPHYDFEWSCWV 479
Query: 481 RAISQEDQLAPCWQAEHPAE 500
           RAISQEDQLA CWQAEH E
Sbjct: 480 RAISQEDQLATCWQAEHCGE 499
>g37333 oncogene [Homo sapiens]
           Length = 376
 Score = 602 \text{ bits } (1536), Expect = e-171
 Identities = 289/366 (78%), Positives = 318/366 (85%), Gaps = 1/366 (0%)
           MDVVEVAGSWWAQEREDIIMKYEKGHRAGLPEDKGPKPFRSYNNNVDHLGIVHETELPPL 60
Query: 1
           MD+VE A S AQER+DI+MKY+KGHRAGLPEDKGP+P
                                                     N+++D GI+HETELPP+
           MDMVENADSLQAQERKDILMKYDKGHRAGLPEDKGPEPV-GINSSIDRFGILHETELPPV 59
Sbjct: 1
          TAREAKQIRREISRKSKWVDMLGDWEKYKSSRKLIDRAYKGMPMNIRGPMWSVLLNTEEM 120
Query: 61
           TAREAK+IRRE++R SKW++MLG+WE YK S KLIDR YKG+PMNIRGP+WSVLLN +E+
Sbjct: 60
          TAREAKKIRREMTRTSKWMEMLGEWETYKHSSKLIDRVYKGIPMNIRGPVWSVLLNIQEI 119
Query: 121 KLKNPGRYQIMKEKGKRSSEHIQRIDRDVSGTLRKHIFFRDRYGTKQRELLHILLAYEEY 180
           KLKNPGRYOIMKE+GKRSSEHI ID DV TLR H+FFRDRYG KOREL +ILLAY EY
Sbjct: 120 KLKNPGRYQIMKERGKRSSEHIHHIDLDVRTTLRNHVFFRDRYGAKQRELFYILLAYSEY 179
Query: 181 NPEVGYCRDLSHIAALFLLYLPEEDAFWALVQLLASERHSLQGFHSPNGGTVQGLQDQQE 240
           NPEVGYCRDLSHI ALFLLYLPEEDAFWALVQLLASERHSL GFHSPNGGTVQGLQDQQE
Sbjct: 180 NPEVGYCRDLSHITALFLLYLPEEDAFWALVQLLASERHSLPGFHSPNGGTVQGLQDQQE 239
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Query: 241 HVVATSQPKTMGHQDKKDLCGQCSPLGCLIRILIDGISLGLTLRLWDVYLVEGEQALMPI 300
          HVV SQPKTM HQDK+ LCGQC+ LGCL+R LIDGISLGLTLRLWDVYLVEGEQ LMPI
Sbjct: 240 HVVPKSQPKTMWHQDKEGLCGQCASLGCLLRNLIDGISLGLTLRLWDVYLVEGEQVLMPI 299
Ouery: 301 TRIAFKVQQKRLTKTSRCGPWARFCNRFVDTWARDEDTVLKHLRASMKKLTRKQGDLPPP 360
          T IA KVOOKRL KTSRCG WAR N+F DTWA ++DTVLKHLRAS KKLTRKQGDLPPP
Sbjct: 300 TSIALKVOOKRLMKTSRCGLWARLRNQFFDTWAMNDDTVLKHLRASTKKLTRKQGDLPPP 359
Query: 361 AKPEQG 366
Sbict: 360 GPTALG 365
>g37334 oncogene [Homo sapiens]
          Length = 1089
 Score = 257 bits (651), Expect = 4e-67
 Identities = 121/149 (81%), Positives = 125/149 (83%)
Ouery: 352 RKOGDLPPPAKPEOGSSASRPVPASRGGKTLCKGDROAPPGPPARFPRPIWSASPPRAPR 411
                   AK EOGS A RPVPASRGGKTLCKG ROAPPGPPA+F RPI SASPP A R
          RDPKDSRDAAKREOGSLAPRPVPASRGGKTLCKGYROAPPGPPAOFORPICSASPPWASR 93
Query: 412 SSTPCPGGAVREDTYPVGTQGVPSPALAQGGPQGSWRFLQWNSMPRLPTDLDVEGPWFRH 471
           STPCPGGAVREDTYPVGTQGVPS ALAQGGPQGSWRFL+W SMPRLPTDLD+ GPWF H
Sbjct: 94 FSTPCPGGAVREDTYPVGTQGVPSLALAQGGPQGSWRFLEWKSMPRLPTDLDIGGPWFPH 153
Query: 472 YDFRQSCWVRAISQEDQLAPCWQAEHPAE 500
          YDF +SCWVRAISQEDQLA CWQAEH E
Sbjct: 154 YDFERSCWVRAISQEDQLATCWQAEHCGE 182
>g29881565 Expressed sequence AI316785 [Mus musculus]
          Length = 707
 Score = 250 bits (631), Expect = 9e-65
 Identities = 151/445 (33%), Positives = 223/445 (49%), Gaps = 18/445 (4%)
          AQEREDIIMKYEKGHRAGLPEDKGPKPFRSYNNNVDHLGIVHETELPPLTAREAKQIRRE 71
Query: 12
          AQER +I+ KY++G
                             Ε
                                             D G +HE ELP
                                     + Y
Sbjct: 35
          AQERAEIVAKYDRGREGAEIEPWEDADYLVYKVT-DRFGFLHEEELPYHNAAADRQKQLE 93
          ISRKSKWVDMLGDWEKYKSSRKLIDRAYKGMPMNIRGPMWSVLLNTEEMKLKNPGRYQIM 131
Query: 72
           I R SKW+ ML WE+YK++ K
                                   R YKG+P+ +RG +W++LL
                                                         +MK +
          IERTSKWLKMLKKWERYKNTEKFHRRIYKGIPLQLRGEVWALLLEIPKMKEETRDLYSKL 153
Sbict: 94
Ouery: 132 KEKGKRSSEHIORIDRDVSGTLRKHIFFRDRYGTKORELLHILLAYEEYNPEVGYCRDLS 191
           K + + S I++ID DV+ T R HI FRDRYG KQ+ L H+L AY YN EVGYC+ +S
Sbjct: 154 KHRARGCSPDIRQIDLDVNRTFRDHIMFRDRYGVKQQSLFHVLAAYSIYNTEVGYCQGMS 213
Query: 192 HIAALFLLYLPEEDAFWALVQLLASERHSLQGFHSPNGGTVQGLQDQQEHVVATSQPKTM 251
            I AL L+Y+ EEDAFWALV+L + +H++ GF
                                                   +
                                                      Q+ E ++
Sbjct: 214 QITALLLMYMNEEDAFWALVKLFSGPKHAMHGFFVQGFPKLLRFQEHHEKILNKFLSKLK 273
Query: 252 GHQDKKDLCGQCSPLGCLIRILIDGISLGLTLRLWDVYLVEGEQALMPITRIAFKVQQKR 311
                                       L LR+WD+Y+ EGE+ L ++
                             + +D
Sbjct: 274 QHLDSQEIYTSFYTMKWFFQCFLDRTPFRLNLRIWDIYIFEGERVLTAMSYTILKLHKKH 333
Query: 312 LTKTSRCGPWARFCNRFVDTWARD----EDTVLKHLRASMKKLTRKQGDLPPPAKPEQ-- 365
                                       +D V++ L+ SM +L R + DLP P K ++
           LKS
                             +T A+D
Sbjct: 334 LMKLS----MEELVEFLQETLAKDFFFEDDFVIEQLQVSMAELKRAKLDLPEPGKEDEYP 389
Query: 366 GSSASRPVPASRGGKTLCKGDRQ-APPGPPAR-----FPRPIWSASPPRAPRSSTPCPG 418
                          L G R
                                    РΡ
                                                 PR
                                                         SP
                + PS
Sbjct: 390 KKPLGQLPPESACVNHLSNGQRSVGRPSPKTSSRREDGSPRKNHEHSPVHHSRNGTPERA 449
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Query: 419 GAVREDTYPVGTQGVPSPALAQGGP 443
          G R + G+++A+Q P
Sbjct: 450 GQSRRKSVDEGSKNLKHEAESQRKP 474
>g27695568 related to the N terminus of tre [Homo sapiens]
          Length = 828
Score = 245 \text{ bits } (620), \text{ Expect = } 2e-63
Identities = 148/434 (34%), Positives = 215/434 (49%), Gaps = 25/434 (5%)
Query: 12 AQEREDIIMKYEKGHRAGLPEDKGPKPFRSYNNNVDHLGIVHETELPPLTAREAKQIRRE 71
          AQER + I + KY + + G E + Y
                                           D G +HE ELP
Sbjct: 12
          AQERAEIVAKYDRGREGAEIEPWEDADYLVYKVT-DRFGFLHEEELPDHNVAVERQKHLE 70
Query: 72 ISRKSKWVDMLGDWEKYKSSRKLIDRAYKGMPMNIRGPMWSVLLNTEEMKLKNPGRYQIM 131
          I R +KW+ ML WEKYK++ K R YKG+P+ +RG +W++LL
                                                       +MK +
Sbjct: 71
          IERTTKWLKMLKGWEKYKNTEKFHRRIYKGIPLQLRGEVWALLLEIPKMKEETRDLYSKL 130
Ouery: 132 KEKGKRSSEHIORIDRDVSGTLRKHIFFRDRYGTKQRELLHILLAYEEYNPEVGYCRDLS 191
          K + + S I++ID DV+ T R HI FRDRYG KQ+ L H+L AY YN EVGYC+ +S
Sbjct: 131 KHRARGCSPDIRQIDLDVNRTFRDHIMFRDRYGVKQQSLFHVLAAYSIYNTEVGYCQGMS 190
Ouery: 192 HIAALFLLYLPEEDAFWALVOLLASERHSLOGFHSPNGGTVQGLQDQQEHVVATSQPKTM 251
           I AL L+Y+ EEDAFWALV+L + +H++ GF
                                                     Q+ E ++
Sbjct: 191 QITALLLMYMNEEDAFWALVKLFSGPKHAMHGFFVQGFPKLLRFQEHHEKILNKFLSKLK 250
Query: 252 GHQDKKDLCGQCSPLGCLIRILIDGISLGLTLRLWDVYLVEGEQALMPITRIAFKVQQKR 311
                      + + +D
                                      L LR+WD+Y+ EGE+ L ++
           H D +++
Sbjct: 251 QHLDSQEIYTSFYTMKWFFQCFLDRTPFTLNLRIWDIYIFEGERVLTAMSYTILKLHKKH 310
Query: 312 LTKTSRCGPWARFCNRFVDTWARD----EDTVLKHLRASMKKLTRKQGDLPPPAK----P 363
                                      +D V++ L+ SM +L R + DLP P K
                          F + T A + D
Sbjct: 311 LMKLS----MEELVEFFQETLAKDFFFEDDFVIEQLQISMTELKRAKLDLPEPGKEDEYP 366
Ouery: 364 EOGSSASRPVPASRGGKTLCKGDRQAPPGPPARFPRPIWSASPPRAPRSSTPCPGGAVRE 423
                           L G R G P
                 P S G
                                                  SP + R + P
Sbjct: 367 KKPLGQLPPELQSWGVHHLSNGQRSV--GRP-----SPLASGRRESGAPHRRHEH 414
Query: 424 DTYPVGTQGVPSPA 437
            +P
                  G P A
Sbjct: 415 SPHPOSRTGTPERA 428
>g2104571 KIAA0019 protein [Homo sapiens]
          Length = 828
 Score = 245 bits (620), Expect = 2e-63
 Identities = 148/434 (34%), Positives = 215/434 (49%), Gaps = 25/434 (5%)
Query: 12 AQEREDIIMKYEKGHRAGLPEDKGPKPFRSYNNNVDHLGIVHETELPPLTAREAKQIRRE 71
          AOER +I+ KY++G E
                                           D G +HE ELP
                                     + Y
          AQERAEIVAKYDRGREGAEIEPWEDADYLVYKVT-DRFGFLHEEELPDHNVAVERQKHLE 70
Sbjct: 12
          ISRKSKWVDMLGDWEKYKSSRKLIDRAYKGMPMNIRGPMWSVLLNTEEMKLKNPGRYQIM 131
Query: 72
          I R +KW+ ML WEKYK++ K R YKG+P+ +RG +W++LL
Sbjct: 71 IERTTKWLKMLKGWEKYKNTEKFHRRIYKGIPLQLRGEVWALLLEIPKMKEETRDLYSKL 130
Query: 132 KEKGKRSSEHIQRIDRDVSGTLRKHIFFRDRYGTKQRELLHILLAYEEYNPEVGYCRDLS 191
          K + + S I++ID DV+ T R HI FRDRYG KQ+ L H+L AY YN EVGYC+ +S
Sbjct: 131 KHRARGCSPDIRQIDLDVNRTFRDHIMFRDRYGVKQQSLFHVLAAYSIYNTEVGYCQGMS 190
Query: 192 HIAALFLLYLPEEDAFWALVQLLASERHSLQGFHSPNGGTVQGLQDQQEHVVATSQPKTM 251
           I AL L+Y+ EEDAFWALV+L + +H++ GF
                                                    Q+ E ++
```

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Sbjct: 191 QITALLLMYMNEEDAFWALVKLFSGPKHAMHGFFVQGFPKLLRFQEHHEKILNKFLSKLK 250
Ouery: 252 GHODKKDLCGQCSPLGCLIRILIDGISLGLTLRLWDVYLVEGEQALMPITRIAFKVQQKR 311
                             + +D
                                       L LR+WD+Y+ EGE+ L ++
Sbjct: 251 OHLDSOEIYTSFYTMKWFFOCFLDRTPFTLNLRIWDIYIFEGERVLTAMSYTILKLHKKH 310
Query: 312 LTKTSRCGPWARFCNRFVDTWARD----EDTVLKHLRASMKKLTRKQGDLPPPAK----P 363
                           F +T A+D
                                       +D V++ L+ SM +L R + DLP P K
Sbjct: 311 LMKLS----MEELVEFFQETLAKDFFFEDDFVIEQLQISMTELKRAKLDLPEPGKEDEYP 366
Ouery: 364 EOGSSASRPVPASRGGKTLCKGDRQAPPGPPARFPRPIWSASPPRAPRSSTPCPGGAVRE 423
                   Ρ
                      SG
                           L GR
                                     GΡ
                                                   SP + R + P
Sbjct: 367 KKPLGQLPPELQSWGVHHLSNGQRSV--GRP-----SPLASGRRESGAPHRRHEH 414
Query: 424 DTYPVGTQGVPSPA 437
             +P
                   G P A
Sbjct: 415 SPHPQSRTGTPERA 428
>g28703740 Hypothetical protein MGC51025 [Homo sapiens]
           Length = 250
 Score = 235 bits (594), Expect = 2e-60
 Identities = 120/206 (58%), Positives = 146/206 (70%), Gaps = 5/206 (2%)
Query: 18
           IIMKYEKGHRAGLPEDKGPKPF--RSYNNNVDHLGIVHETELPPLTAREAKQIRREISRK 75
           II KYE+GHRAG
                        D G +
                                  R Y NN
                                           LGIVHE ELP ++A E KQ R+E R
Sbjct: 19
           IITKYEOGHRAGAAVDLGHEOVDVRKYTNN---LGIVHEMELPRVSALEVKQRRKESKRT 75
Query: 76
           SKWVDMLGDWEKYKSSRKLIDRAYKGMPMNIRGPMWSVLLNTEEMKLKNPGRYQIMKEKG 135
           +KW ML DW KY+S++KL R YK +P+ +RG WS+LL+ + +K +NPG+Y++MKEKG
Sbjct: 76
           NKWOKMLADWTKYRSTKKLSORVYKVIPLAVRGRAWSLLLDIDRIKSONPGKYKVMKEKG 135
Ouery: 136 KRSSEHIORIDRDVSGTLRKHIFFRDRYGTKORELLHILLAYEEYNPEVGYCRDLSHIAA 195
           KRSS I I DVS TL+KH+ F R+G KO+EL IL+AY YNPEVGY RDLS I A
Sbjct: 136 KRSSRIIHCIQLDVSHTLQKHMMFIQRFGVKQQELCDILVAYSAYNPEVGYHRDLSRITA 195
Query: 196 LFLLYLPEEDAFWALVQLLASERHSL 221
           + LL LPEED FWAL QLLA ERHSL
Sbjct: 196 ILLLCLPEEDVFWALTQLLAGERHSL 221
  Database: genpept136
    Posted date: Jul 31, 2003 9:27 AM
  Number of letters in database: 449,659,834
  Number of sequences in database: 1,453,555
Lambda
            0.136
   0.319
                     0.436
Gapped
Lambda
   0.270
           0.0470
                     0.230
Matrix: BLOSUM62
Gap Penalties: Existence: 11, Extension: 1
Number of Hits to DB: 550686865
Number of Sequences: 1453555
Number of extensions: 25993291
Number of successful extensions: 86626
Number of sequences better than 10.0: 846
Number of HSP's better than 10.0 without gapping: 199
Number of HSP's successfully gapped in prelim test: 682
Number of HSP's that attempted gapping in prelim test: 82213
```

```
Number of HSP's gapped (non-prelim): 2853 length of query: 549 length of database: 449,659,834 effective HSP length: 54 effective length of query: 495 effective length of database: 371,167,864 effective search space: 183728092680 effective search space used: 183728092680 T: 11 A: 40 X1: 16 ( 7.4 bits) X2: 38 (14.8 bits) X3: 64 (24.9 bits) S1: 41 (21.7 bits)
```

Graphical Viewer...

Submit sequences to: BLAST2 ▼ Submit Reset

